

FIG. 1

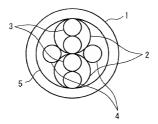


FIG. 2

SUBACTION	ARBITRATION	PACKET	ACK GAP	ACK	SUBACTION
GAP L	AND THAT TOR	TAGRET	GAP	71011	GAP

FIG. 4

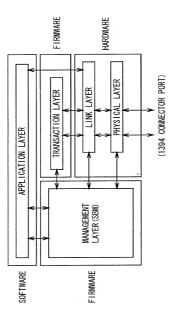


FIG. (

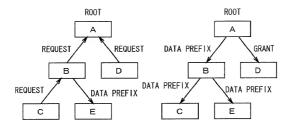


FIG. 5A

FIG. 5B

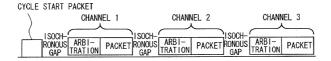


FIG. 6

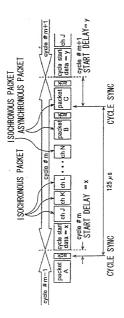
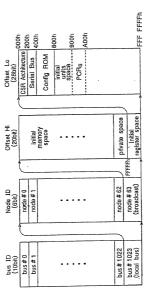


FIG. 7



=IG. 8

DEECET	NIAME	ODEDATION
اکار	INAME	OPERALION
4000	STATE_CLEAR	STATE AND CONTROL INFORMATION
004h	STATE_SET	SETS STATE_CLEAR BIT
1800	NODE_IDs	INDICATES 16-BIT NODE 1D
H200	RESET_START	STARTS COMMAND RESET
h-010h	018h-010h SPLIT_TIMEOUT	SPECIFIES SPLIT TIMEOUT
200h	CYCLE_TIME	CYCLE TIME
210h	BUSY_TIMEOUT	SPECIFIES RETRY TIMEOUT
21Ch	BUS_MANAGER	INDICATES BUS MANAGER ID
220h	BANDWIDTH_AVAILABLE	BANDWIDTH_AVAILABLE INDICATES BANDWIDTH AVAILABLE FOR
		ISOCHRONOUS COMMUNICATION
h-228h	CHANNELS_AVA I LABLE	224h-228h CHANNELS_AVAILABLE INDICATES AVAILABLE STATE OF EACH CHANNEL

FIG. 9

gth	info_length	crc_length	rom_crc_value						
Info_length	bus_info_block								
I	root_directory								
	unit_directories								
	root & unit leaves								
	vendor_dependent_information								

FIG. 10

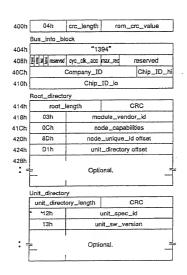


FIG. 11

900h	Output Master Plug Register
904h	Output Plug Control Register #0
908h	Output Plug Control Register #1
:	:
97Ch	Output Plug Control Register #30
980h	Input Master Plug Register
984h	Input Plug Control Register #0
988h	Input Plug Control Register #1
•	<u>:</u>
:	:
9FCh	Input Plug Control Register #30

FIG. 12

						_			_
number of output plugs	5 (bit)	payload	10 (bit)		number of Input plugs	5 (bit)		reserved	16 (bit)
num		overhead ID	4		ndul ndul				
reserved	9	data rate	7		reserved	က		channel	9
persistent tension field	80	reserved channel number	9		persistent tension field	8		reserved	2
istent per field exten		reserved	7		â			point-to-point connection	9
non-persistent e extension field	8	point-to-point connection counter	9		non-persistent extension field	8			
broadcast non-persistent persistent channel base extension field extension field	ę,	broadcast procedures counter	-		reserved	9		broadcast connection	-
oMPR data rate capability	2	oPCR [n]	-	IMPR	data rate capability	2	(PCR [n]	on-line	_
13A		13B			FIG. 13C			FIG. 13D	
FIG. 13A		FIG. 13B			FIG.			FIG.	

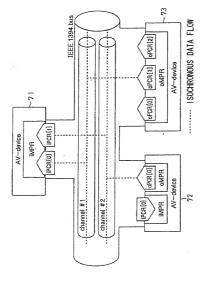


FIG. 14

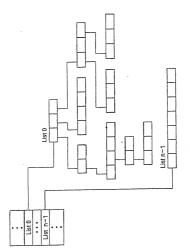


FIG. 15

The	General Subunit Identifier Descriptor
address	contents
00 0016	descriptor_length
00 0116	
00 0216	generation_ID
00 0315	size_of_list_ID
00 0416	size_of_object_ID
00 0516	size_of_object_position
00 0616	number_af_root_object_lists (n)
00 0716	
00 0816	root_object_list_id_0
:	
:	
:	roat_object_list_id_n-1
:	
<u>:</u>	subunit_dependent_length
<u> </u>	
•••	subunit_dependent_information
:	manufacturer_dependent_length
:-	
:	manufacturer_dependent_information

FIG. 16

gene	ration_ID values
generation_ID	meaning
0016	Data structures and command sets as specified in the AV/C General Specification, version 3.0
all others	reserved for future specification

FIG. 17

List ID Value	Assignment Ranges
range of values	list definition
000016-0FFF16	reserved
1000 ₁₆ -3FFF ₁₆	subunit-type dependent
4000 ₁₆ -FFFF ₁₆	reserved
1 000016-max list ID value	subunit-type dependent

FIG. 18

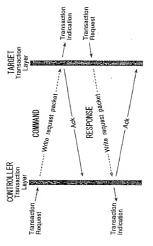


FIG. 19

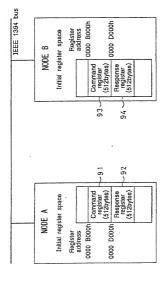


FIG. 20

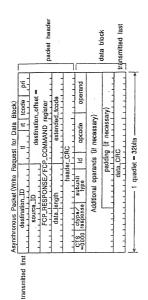


FIG. 21

opcode : Operation Code	OON VENDOR-DEPENDENT	Son SEARCH MODE	ath limecone	SZN AIN	61h READ MIC	62h WRITE MIC	C1h LOAD MEDIUM	CZN HECOHO	C3h PLAY	C4h WIND	~					
25	Video monitor	(beserved)	Disc recorder/	Player	Player	Inner	Video Camera	eserved)	Vendor unique	reserved	Subunit type	red of post	The second secon	nhin.	lint.	
subunit_type	00000		00011 D	- 1	20100		00111		11100 V	11101			_	-		
ctype/response	0000 CONTROL	STATUS	SPECIFIC INQUIRY	NOTIFY	GENERAL INCOURY	(reserved for future specification)		NOT IMPLEMENTED	ACCEPTED.	מני ונסבי ובס	REJECTED	IN HANSILION	IMPLEMENTED/STABLE	CHANGED	(reserved for future specification)	INTERIM
9/re	000	0001	010	110	0100	~	0111	900	3		3	5	8	9.H	1110	Ξ

FIG. 22C

FIG. 22B

FIG. 22A

3. 23A CTS- CT9000 AV/C accepted AV/C accepted AV/C accepted AV/C accepted AV/C accepted AV/C accepted AV/C accepted AV/C accepted
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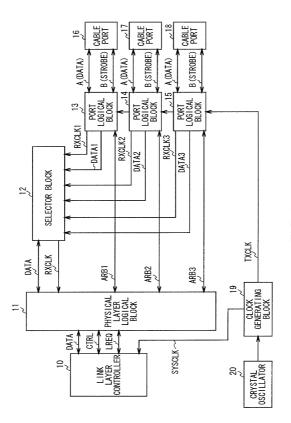


FIG. 24

TRANSMISSION ARBITRATION SIGNAL A		IVER	REMARKS
(Arb_A_Tx)	Strb_Tx	Strb_Enable	
Z	-	0	TPA DRIVER: INACTIVE
0	0	1	TPA DRIVER: ACTIVE, STROBE: LOW
1	1	1	TPA DRIVER: ACTIVE, STROBE: HIGH

FIG. 25

TRANSMISSION ARBITRATION SIGNAL B	DR	IVER	REMARKS
(Arb_B_Tx)	Data_Tx	Data_Enable	
Z	_	0	TPB DRIVER: INACTIVE
0	0	1	TPB DRIVER: ACTIVE, STROBE: LOW
1	1	1	TPB DRIVER: ACTIVE, STROBE: HIGH

FIG. 26

REMARKS	'n=AorB THIS TABLE APPLIES TO BOTH A AND B.	IF THIS PORT HAS TRANSMITTED Z,	RECEIVED SIGNAL IS EQUIVALENT TO	END OF CABLE.	IF COMPARATOR RECEIVES Z WHILE THIS PORT TRANSMITS 0. OTHER PORT TRANSMITS 1.	OTHER PORT TRANSMITS 0 OR Z.	OTHER PORT TRANSMITS 0.	OTHER PORT TRANSMITS 1 OR Z.
INTERPOLATED ARBITRATION	(Arb_n)	Z	0	-	-	0	_	-
RECEIVED ARBITRATION RECEIVED RECEIVED OMPARISON FROM ITS	VALUE PORT (Arb_n_Tx)	Z	Z	Z	0	0	1	-
RECEIVED ARBITRATION COMPARISON	VALUE (Arb_n_Rx)	Z	0	-	2	0	7	-

FIG. 27

ARBITRATION.	TRANSMISSION	ARBITRATION TRANSMISSION	
(Arb_A_Tx)	(Arb_A_Tx) (Arb_B_Tx)	LINE SIAIE NAME	NEMBRNO
Z	Z	IDLE	TRANSMITTED TO INDICATE GAP.
7	O	TX_REQUEST	TRANSMITTED TO PARENT NODE TO REQUEST BUS.
7	>	TX_GRANT	TRANSMITTED TO CHILD NODE WHEN BUS IS GIVEN.
0	Z	TX_PARENT_NOTIFY	TX_PARENT_NOTIFY TRANSMITTED TO NODE OF PARENT CANDIDATE IN Tree_ID PHASE.
0	-	TX_DATA_PREF1X	TRANSMITTED BEFORE PACKET DATA OR BETWEEN PACKET DATA OF SUBACTION CONNECTED.
		TX_CHILD_NOTIFY	TX_CHILD_NOTIFY TRANSMITTED TO CHILD NODE TO ACKNOWLEDGE PARENT_NOTIFY.
-	2	TX_IDENT_DONE	TRANSMITTED TO PARENT NODE TO INDICATE THAT self_ID PHASE IS COMPLETED.
1	0	TX_DATA_END	TRANSMITTED AT END TIME OF PACKET TRANSFER.
-	-	BUS_RESET	TRANSMITTED TO RECONSTRUCT THE BUS.

FIG. 28

RECEPTION ARBI	RECEPTION ARBITRATION SIGNAL		DEIMANG
(Arb_A_Rx)	(Arb_B_Tx)	LINE SIAIE NAME	REMARRS
7	Z	IDLE	PHY OF ADJACENT NODE CONNECTED IS NOT IN OPERATION.
7	C	RX_PARENT_NOT1FY	PHY OF ADJACENT NODE CONNECTED IS BECOMING CHILD NODE.
1	,	RX_REQUEST_CANCEL	PHY OF ADJACENT NODE CONNECTED HAS ABANDONED REQUEST.
Z	-	RX_I DENT_DONE	PHY OF CHILD NODE HAS COMPLETED SEIF_ID PHASE.
0	Z	RX_SELF_ID_GRANT	PHY OF PARENT NODE GIVES BUS FOR self_ID.
		RX_REQUEST	PHY OF CHILD NODE REQUESTS BUS.
0	0	RX_R00T_CONTENTION	PHYS OF CHILD NODE AND ADJACENT NODE CONNECTED ARE BOTH BECOMING CHILD NODE.
,		RX_GRANT	PHY OF PARENT NODE GIVES BUS CONTROL.
		RX_PARENT_HANDSHAKE	RX_PARENT_HANDSHAKE PHY OF ADJACENT NODE CONNECTED ACKNOWLEDGES PARENT_NOTIFY.
0	-	RX_DATA_END	PHY OF ADJACENT NODE CONNECTED ENDS TRANSMISSION OF DATA BLOCK AND RELEASES BUS.
-	7	RX_CHILD_HANDSAHKE	PHY OF ADJACENT NODE CONNECTED ACKNOWLEDGES TX_CHILD_NOTIFY.
-	0	RX_DATA_PREFIX	PHY OF ADJACENT NODE CONNECTED IS TRANSMITTING PACKET DATA OR FURTHER TRANSMITTING DATA AFTER END OF TRANSMITTING DATA BLOCK.
_	-	BUS_RESET	TRANSMITTED TO RECONSTRUCT BUS.

FIG. 29

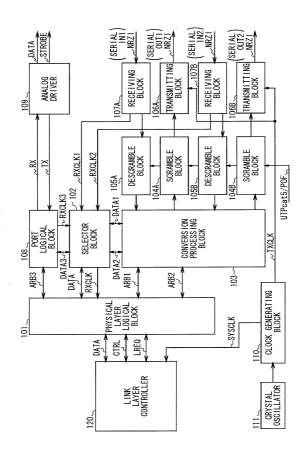


FIG. 30

TRANSMISSION SYMBOL	ARBITRATION STATUS
11111	IDEL
00100	TX_REQUEST
00100	TX_GRANT
00101	TX_PARENT_NOTIFY
11000 10001	TX_DATA_PREFIX
00111	TX_CHILD_NOTIFY
00111	TX_IDENT_DONE
01101	TX_DATA_END
00000 11111	BUS_RESET

FIG. 31

11111	11111	IDLE
00101	11111	RX_PARENT_NOTIFY
11111	00100	RX_REQUEST_CANCEL
00111	11111	RX_I DENT_DONE
00100	11111	RX_SELF_ID_GRANT
00100	11111	RX_REQUEST
00101	00101	RX_ROOT_CONTENTION
00100	00100	RX_GRANT
00111	00101	RX_PARENT_HANDSHAKE
01101	11111	RX_DATA_END
11111	00111	RX_CHILD_HANDSHAKE
11000 10001	00100	RX_DATA_PREFIX
11000 10001	00111	RX_DATA_PREFIX
11000 10001	11111	RX_DATA_PREFIX
00000 11111	(do'nt care)	BUS_RESET

FIG. 32

HEXADECIMAL	BINARY	SYMBOL
0	0000	11110
1	0001	01001
2	0010	10100
3	0011	10101
4	0100	01010
5	0101	01011
6	0110	01110
7	0111	01111
8	1000	10010
9	1001	10011
Α	1010	10110
В	1011	10111
С	1100	11010
D	1101	11011
E	1110	11100
F	1111	11101

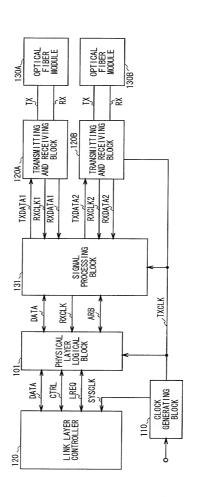


FIG. 34

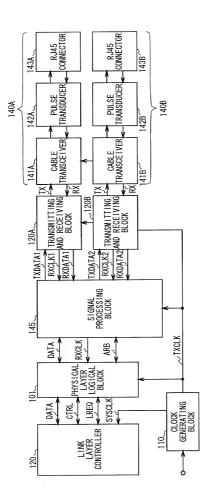


FIG. 35

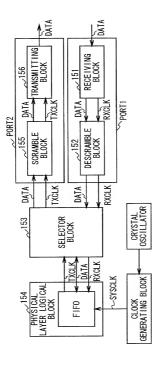


FIG. 36

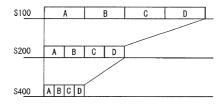


FIG. 37

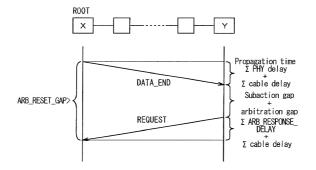


FIG. 38

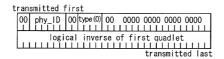


FIG. 39

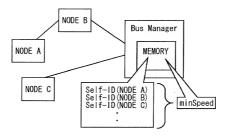


FIG. 40

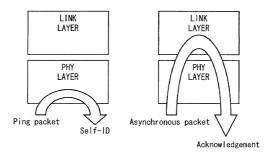


FIG. 41